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09/575,118	05/23/2000	Paul Lapstun	NPA012US	9159

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EXAMINER

JORGENSEN, LELAND R

ART UNIT	PAPER NUMBER
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2675

DATE MAILED: 05/07/2003

14

Please find below and/or attached an Office communication concerning this application or proceeding.

Advisory Action

Application No.

09/575,118

Applicant(s)

LAPSTUN ET AL.

Examiner

Leland R. Jorgensen

Art Unit

2675

--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

THE REPLY FILED 25 March 2003 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE. Therefore, further action by the applicant is required to avoid abandonment of this application. A proper reply to a final rejection under 37 CFR 1.113 may only be either: (1) a timely filed amendment which places the application in condition for allowance; (2) a timely filed Notice of Appeal (with appeal fee); or (3) a timely filed Request for Continued Examination (RCE) in compliance with 37 CFR 1.114.

PERIOD FOR REPLY [check either a) or b)]

- a) ☒ The period for reply expires 3 months from the mailing date of the final rejection.
- b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection. ONLY CHECK THIS BOX WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

1. ☐ A Notice of Appeal was filed on _____. Appellant's Brief must be filed within the period set forth in 37 CFR 1.192(a), or any extension thereof (37 CFR 1.191(d)), to avoid dismissal of the appeal.
2. ☐ The proposed amendment(s) will not be entered because:
- (a) ☐ they raise new issues that would require further consideration and/or search (see NOTE below);
 - (b) ☐ they raise the issue of new matter (see Note below);
 - (c) ☐ they are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or
 - (d) ☐ they present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: _____

3. ☐ Applicant's reply has overcome the following rejection(s): _____.
4. ☐ Newly proposed or amended claim(s) _____ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).
5. ☒ The a) ☐ affidavit, b) ☐ exhibit, or c) ☒ request for reconsideration has been considered but does NOT place the application in condition for allowance because: See Attached.
6. ☐ The affidavit or exhibit will NOT be considered because it is not directed SOLELY to issues which were newly raised by the Examiner in the final rejection.
7. ☐ For purposes of Appeal, the proposed amendment(s) a) ☐ will not be entered or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.

The status of the claim(s) is (or will be) as follows:

Claim(s) allowed: _____.

Claim(s) objected to: _____.

Claim(s) rejected: 1 - 8, 10 - 23, 25 - 29, and 31 - 60.Claim(s) withdrawn from consideration: 9, 24, and 30.

8. ☐ The proposed drawing correction filed on _____ is a) ☐ approved or b) ☐ disapproved by the Examiner.
9. ☐ Note the attached Information Disclosure Statement(s) (PTO-449) Paper No(s): _____.
10. ☐ Other: _____

STEVEN SARAS

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600

Response to Arguments

Applicant's arguments filed 25 March 2003 have been fully considered but they are not persuasive.

The arguments do not overcome the rejections. For example, applicant objected to the rejection of claim 1. Applicant claims that Cass does not disclose any interactive element. Applicant argues, "At no stage does the user in the Cass arrangement 'interact' with any interactive elements by using the scanner. Instead, the user simply makes a cross mark on the page using an ordinary pen and the Cass scanner scans in the whole page and interprets those markings." Amendment B, page 3.

During examination, the claims must be interpreted as broadly as their terms reasonably allow. This means that the words of the claim must be given their plain meaning unless applicant has provided a clear definition in the specification. The words in a claim are generally not limited in their meaning by what is shown or disclosed in the specification. It is only when the specification provides definitions for terms appearing in the claims that the specification can be used in interpreting claim language. MPEP 2111.01.

Webster's Dictionary defines interactive as "1: mutually or reciprocally active 2. of, relating to, or being a two-way electronic communication system (as a telephone, cable television, or a computer) that involves a user's orders (as for information or mechanidise) or responses (as to a poll)." Merriam-Webster's Collegiate Dictionary, 10th Ed. (Springfield, MA: Merriam-Webster, Inc. 1999), p. 608. The specifications teach,

The present invention relates generally to methods, systems and apparatus for interacting with computers by means of printed matter and sensing devices. More particularly, the invention relates to directory navigation utilizing such mehtods, systems and apparatus.

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The invention has been developed primarily to allow a large number of distributed users to interact with networked information via printed matter and to obtain interactive printed matter on demand via high-speed networked color printers. Although the invention will largely be described herein with reference to this use, it will be appreciated that the invention is not limited to use in this field.

Specification, page 1. The specification add,

It is an object of the invention to combine advantages of printed and online information, to facilitate quick and easy online directory navigation via a printed document.

Specification, page 2. The specification notes that an "interactive element" may a text field on a printed page. Specification, page 10. A sensor reads a marking made by the user in the text field. Thus, the user who interacts by makes a cross mark on the text field, the interactive element, by using an ordinary pen and using the Cass scanner to scan in the whole page and interpret those markings appears to be doing what is described by claim 1.

d sometimes suggests a lack of
th words). ALERT stresses quick-
ing (alert to new technology).
finding answers in debate or in
anger or challenge (no match for

-'gen(t)-\ n [Russ *intelligentsiya*, intellectuals who form an artistic

ME. fr. *L. intelligibilis*, fr. *intel-*
ne intellect only 2 : capable of
— *in-tel-li-gi-bil-i-ty* \-te-lə-jə-
te-lə-jə-bəl-nəs/ *n* — *in-tel-li-gi-*

\s\ n (15c) : lack of moderation;
 intoxicants
 ntemperat. fr. L *intemperatus*, fr.
 temper] (14c) : not temperate (~
 se of intoxicating liquors — in-
 te-ness n

INTEND, fr. MF *entendre* to pur-
sue, direct, aim at, fr. *in-* + *tendere* to
stretch, to direct the mind on 2 archaic
forms: **IN- + TEND** MEAN **b**: to refer to 4
1: **PLAN** **b**: to design for a speci-
fied purpose
OUT-START — **in-tend-er** *n*

- intend
 - 1. *L. intendens-, intendens*, prp. of *intendere*: an administrative official (as in the Japanese or Portuguese monarchies)
 - 2. *intend* such in the future (an ~ career)
 - 3. *-tend-ed-ly adv*
 - 4. *intend* another is engaged
 - 5. *SPIRING* (an ~ teacher)
 - 6. *c)*: the true meaning or intention

soft *soft* **ad**; **-at-ing** [²*in-* + *L* *tener* soft]
to make tender: **SOFTEN** — *in-ten-*

3, fr. *L. intensus*, fr. pp. of *intendere*
 in an extreme degree (the excitement
 or showing a characteristic in a
 ed by or expressive of great zeal
 tion (~ effort) 3 a : exhibiting
 se (an ~ student) b : deeply fel
 . n
 1 (1835) : one that intensifies; a

d; -fy-ing *vt* (1817) 1: to make
HEN 2 a: to increase the density
(age) by chemical treatment b: to
to become intense or more intense
-**in-ten-si-fi-ca-tion** \-,ten(t)s-i-

1: INTENSITY 2: CONNOTATION
n(t)-shə-nʹl\ *adj* — in-ten-si-ŋəl
in-ten-si-ŋəl-ly \-ˈtench-nəl

intensity (1665) **1**: the quality or state of being intense
2: the degree of strength, force, energy, or power
3: the intensity (as force or energy) per unit area
1: SATURATION 4a
2: of, relating to, or marked by
3: highly concentrated (~ study)
4: esp.: tending to give force or energy to
5: or relating to a method designed to reduce
6: expenditure of more capital and labor
7: (farming) — **in-ten-sive-ly** *adv.*

linguistic element
medical equipment and services for
'heart patients in intensive care') (

1 a : the act or fact of intending to commit a wrongful or criminal act
2 : a usu. clearly formulated intention
MEANING, SIGNIFICANCE b : CONNOTATION

intendere] (14c) 1 : directed w
CENTRATED 2 : having the mi
something or some end or purp
v — **in-tent-ness** *n*

2) 1 : a determination to act
SIGNIFICANCE 3 a : what one
: object for which a prayer, mass
is or manner of healing of indi
cept considered as the product
knowledge 6 pl : purpose with

DESIGN. AIM. END. OBJECT. OBJECT accomplished or attained. INTENTION is in mind to do or bring about. INTENT suggests clearer formulation (*intent* of the statute). PURPOSE is being successful was her purposefully calculated plan (the order). AIM adds to these implications or accomplishing (her aim addresses the intended effect of action the action or means as such (will end). OBJECT may equal END but not

often applies to a more individually determined wish or need (his constant object was the achievement of pleasure). OBJECTIVE implies something tangible and immediately attainable (their objective is to seize the oil fields). GOAL suggests something attained only by prolonged effort and hardship (worked ten years to reach her goals).

in-ten-tion-ál *in-tenč-nál, -ten(t)-šə-n'ál* *adj* (ca. 1727) 1: done by intention or design: **INTENDED** (~ damage) 2 a: of or relating to epistemological intention b: having external reference *syn* **see** VOL-UNTARY

in-ten-tion-ál-ly *-ten(t)-šə-n'ál-ē* *adv*

in-ter *in-ter'v* *in-terred; in-ter-ring* [ME *enteren*, fr. MF *enterrer*, fr. (assumed) VL *interrare*, fr. *in- + L terra* earth — more at TERRACE] (14c): to deposit (a dead body) in the earth or in a tomb

inter- prefix [ME *inter-, enter-,* fr. MF & L; MF *inter-, entre-,* fr. L *inter-, inter-*; akin to OHG *untar* among, Gk *enteron* intestine, OE *in*] 1: between: among: in the midst (*intercrop*) (*interpenetrate*) (*interstellar*) 2: reciprocal (*interrelation*): reciprocally (*intermarry*) (*located between*) (*interface*) 4: carried on between (*international*) 5: occurring between (*interborough*): intervening (*interglacial*) 6: shared by, involving, or derived from two or more (*interfaith*) 7: between the limits of: within (*interpolitical*) 8: existing between (*intercommunal*) (*intercompany*)

inter-African
 interagency
 inter-Allele
 inter-American
 inter-annation
 inter-annual
 interassociation
 interavalibility
 interbank
 interbasin
 interbed
 interboohav
 interboohavforal
 interborough
 interbranch
 intercalibration
 intercampus
 intercell
 intercellular
 interchain
 interchancel
 interchromosomal
 interchurch
 intercity
 interclan
 interclass
 interclub
 interclust
 intercoastal

inter-domainal
inter-electrode
inter-electron
inter-electronic
inter-epidemic
inter-ethnic
interfaciality
interfacial
inter-familial
inter-familiality
inter-fiber
inter-flirm
inter-flux
inter-fluvial
inter-fold
inter-fraternity
inter-ford
inter-gang
inter-generation
inter-individual
inter-generational
inter-genderic
inter-graft
inter-groupular
inter-growth
inter-hemisphere
inter-individual
inter-industry
inter-influence
inter-institutional
inter-involve
inter-ionic
inter-island
inter-jurisdictional
inter-lustrine
inter-lamellar
inter-lay
inter-layer
inter-library
inter-liner
interlobular
inter-local
inter-male
inter-marginal
inter-membrane
inter-menstrual
inter-ministerial
inter-mittic
inter-molecular
inter-molecularly
inter-mountain
inter-nucleon
inter-nucleonic
inter-nucleotide
inter-observer
inter-ocean
inter-oceanic
inter-office
inter-operative
inter-orbital
inter-organ
inter-organizational
inter-span-dem

in-ter-par-ish
in-ter-par-o-chi-al
in-ter-par-o-x-y-s-mal
in-ter-par-ti-cle
in-ter-par-ty
in-ter-per-cep-tu-al
in-ter-per-me-ate
in-ter-pha-lan-gue
in-ter-plan-e-tary
in-ter-plu-vi-al
in-ter-point
in-ter-pop-u-la-tion
in-ter-pop-u-la-tion-al
in-ter-pro-fes-sion-al
in-ter-pro-vi-n-cial
in-ter-psy-chie
in-ter-re-gion-al
in-ter-re-li-gious
in-ter-re-al
in-ter-rov
in-ter-school
in-ter-sec-tion-al
in-ter-seg-ment
in-ter-seg-men-tal
in-ter-sen-so-ry
in-ter-so-ci-et-al
in-ter-so-ci-ety
in-ter-stage
in-ter-sta-tion
in-ter-stim-u-la-tion
in-ter-stim-u-lus
in-ter-strain
in-ter-strand
in-ter-strat-i-fi-ca-tion
in-ter-strat-i-fy
in-ter-sub-sti-tu-abil-i-ty
in-ter-sub-sti-tu-able
in-ter-sys-tem
in-ter-term
in-ter-ter-mi-nal
in-ter-ter-ri-to-ri-al
in-ter-trans-lat-ional
in-ter-trial
in-ter-trib-al
in-ter-troop
in-ter-un-ion
in-ter-un-lit
in-ter-uni-vers-i-ty
in-ter-ur-ban
in-ter-val-ley
in-ter-ven-tric-u-lar
in-ter-ver-te-bral
in-ter-vil-lage
(in-ter-vis-i-bil-i-ty
in-ter-vis-i-ble
in-ter-vis-i-ta-tion
in-ter-war
in-ter-war
in-ter-work-ing
in-ter-zon-al
in-ter-zone

intercalare [1614] *v* **a**: inserted in a calendar (an ~ day) **b** of a year: containing an intercalary period (as a day or month) **2**: inserted between other things or parts: **INTERPOLATED**
in-ter-ca-late \in-tər-kā-lāt/ *v* **-lat-ed**; **-lat-ing** [*L intercalatus*, pp. of *intercalare*, *fr. inter- + calare* to proclaim, call — more at **LOW**] (1603) **1**: to insert (as a day) in a calendar **2**: to insert between or among existing elements or layers *syn* see **INTRODUCE** — **in-ter-ca-la-tion** \-tər-kā-lā-shən/ *n*
in-ter-cede \in-tər-séd/ *vi* **-ced-ed**; **-ced-ing** [*L intercedere*, *fr. inter- + cedere* to go] (1597): to intervene between parties with a view to reconciling differences: **MEDIATE** *syn* see **INTERPOSE** — **in-ter-ceder** *n*
in-ter-cen-sal \in-tər-sent(t)-səl/ *adj* (1887): occurring between censuses (~ estimates) (~ period)
in-ter-cept \in-tər-sept/ *v* [*ME, fr. L interceptus*, pp. of *intercipere*, *fr. inter- + capere* to take, seize — more at **HEAVE**] (15c) **1 obs**: **PREVENT**, **HINDER** **2 a**: to stop, seize, or interrupt in progress or course or before arrival **b**: to receive (a communication or signal directed elsewhere) *usu.* **secretly** **3 obs**: to interrupt communication or connection with **4**: to include (part of a curve, surface, or solid) between two points, curves, or surfaces (<the part of a circumference ~ed between two radii) **5 a**: to gain possession of (an opponent's pass) **b**: to intercept a pass thrown by (an opponent)
in-ter-cept \in-tər-sept/ *n* (1821) **1**: the distance from the origin to a point where a graph crosses a coordinate axis **2**: **INTERCEPTION**; *esp*: the interception of a missile by an interceptor or of a target by a missile **3**: a message, code, or signal that is intercepted (as by monitoring radio communications)
in-ter-ception \in-tər-sep-shən/ *n* (15c) **1 a**: the action of intercepting **b**: the state of being intercepted **2**: something that is intercepted; *esp*: an intercepted forward pass
in-ter-cept-or *also* **in-ter-cept-er** \in-tər-sep-tər/ *n* (1598): one that intercepts; *specif*: a light high-speed fast-climbing fighter plane or missile designed for defense against raiding bombers or missiles
in-ter-ces-sion \in-tər-se-shən/ *n* [*ME, fr. MF or L MF, fr. L intercessio-; intercessio, fr. intercedere*] (15c) **1**: the act of interceding **2**: prayer, petition, or entreaty in favor of another — **in-ter-ces-sion-al** \-se-sh-nəl/, **-se-sh-nəl**/ *adj* — **in-ter-ces-sor** \-se-sər/ *n* — **in-ter-ces-so-ry** \-se-srē/, **-se-so-rē**/ *adj*
in-ter-change \in-tər-chān/ *vb* [*ME entrechaungen, fr. MF entrechancier, fr. OF, fr. entre- inter- + changer* to change] *vt* (14c) **1**: to put each of (two things) in the place of the other **2**: **EXCHANGE** ~ *vi*: to change places mutually — **in-ter-changer** *n*
in-ter-change \in-tər-chān/ *n* (15c) **1**: the act, process, or an instance of interchanging: **EXCHANGE** **2**: a junction of two or more highways by a system of separate levels that permit traffic to pass from one to another without the crossing of traffic streams
in-ter-change-able \in-tər-chān-jə-bəl/ *adj* (14c): capable of being interchanged; *esp*: permitting mutual substitution (~ parts) — **in-ter-change-abil-i-ty** \-chān-jə-bil-ē-tē/ *n* — **in-ter-change-able-ness** \-chān-jə-bəl-nəs/ *n* — **in-ter-change-ably** \-bi-ē/ *adv*
in-ter-col-le-giate \in-tər-kōl-jē-jāt-, jē-t/ *adj* (ca. 1874): existing, carried on, or participating in activities between colleges (~ athletics)
in-ter-co-lum-ni-a-tion \in-tər-kā-ləm-nē-ā-shən/ *n* [*L intercolumnium* space between two columns, *fr. inter- + columna* column] (1624) **1**: the clear space between the columns of a series **2**: the system of spacing of the columns of a colonnade
in-ter-com \in-tər-kām/ *n* [short for *intercommunication system*] (1940): a two-way communication system with a microphone and loudspeaker at each station for localized use
in-ter-com-mu-ni-cate \in-tər-kā-myū-nā-kāt/ *vi* (1586) **1**: to exchange communication with one another **2**: to afford passage from one to another — **in-ter-com-mu-ni-ca-tion** \-myū-nā-kā-shən/ *n*
intercommunication system *n* (1911): **INTERCOM**
in-ter-com-mu-ni-on \in-tər-kā-myū-nyən/ *n* (1921): interdenominational participation in communion
in-ter-con-nect \in-tər-kā-nekt/ *vt* (1865): to connect with one another ~ *vi*: to be or become mutually connected — **in-ter-con-nection** \-nekt-shən/ *n*
Interconnected *adj* (1865) **1**: mutually joined or related (~ highways) (~ political issues) **2**: having internal connections between the parts or elements — **in-ter-con-nec-ted-ness** *n*
in-ter-con-ti-nen-tal \in-tər-kān-tī-nen-tl/ *adj* (ca. 1855) **1**: extending among continents or carried on between continents **2**: capable of traveling between continents (~ ballistic missile)
in-ter-con-ver-sion \in-tər-kən-vər-zhən-, shən/ *n* (1865): a mutual conversion (~ of chemical compounds) — **in-ter-con-ver-ti-ble** \-vər-ti-bəl/ *adj*
in-ter-con-vert-i-bil-i-ty \-vər-tə-bil-ē-tē/ *n* — **in-ter-con-vert-i-ble** \-vər-tə-bəl/ *adj*
in-ter-cool-er \in-tər-kū-lər/ *n* (1899): a device for cooling a fluid (as air) between successive heat-generating processes
in-ter-cos-tal \in-tər-kās-tl/ *adj* [*NL intercostalis*, *fr. L inter- + costa* rib — more at **COAST**] (1597): situated or extending between the ribs (~ spaces) (~ muscles) — **intercostal** *n*
in-ter-course \in-tər-kōrs-, kōrs/ *n* [*ME intercourse*, prob. *fr. MF intercourse, fr. ML intercursum*, *fr. L* act of running between, *fr. intercurre* to run between, *fr. inter- + currere* to run — more at **CAR**] (15c) **1**: connection or dealings between persons or groups **2**: exchange esp. of thoughts or feelings: **COMMUNION** **3**: physical sexual contact between individuals that involves the genitalia of at least one person (heterosexual ~) (anal ~) (oral ~); *esp*: **SEXUALINTERCOURSE** **1**
in-ter-crop \in-tər-krāp-, krāp-/ *vi* (1898): to grow a crop in between (another) ~ *vi*: to grow two or more crops simultaneously (as in alternate rows) on the same plot — **in-ter-crop** \in-tər-krāp/ *n*
in-ter-cross \in-tər-kros/ *vb* (1711): **CROSS**
in-ter-cross \in-tər-kros/ *n* (1859): an instance or a product of crossbreeding

ʌbʊt ʌ kɪtən, F table ʌɹt fʌrðə ʌʃ ʌs ʌ mɒp, mæ
 ʌʊt ʌʃ ʃɪn ʌbet ʌeɪ ʌ go ʌ hɪt ʌ ɪs ʌ dʒɒb
 ʌ sɪŋ ʌ go ʌ lɔ law ʌɔɪ bɔɪ ʌθ ʌ θɪn ʌθ the ʌl lʊt ʌl fʊt
 ʌ yet ʌʒ ʌ vɪʒən ʌ, k, æ, œ, ʊ, ʌ see Guide to Pronunciation

Merriam-Webster's Collegiate Dictionary, 10th Ed.